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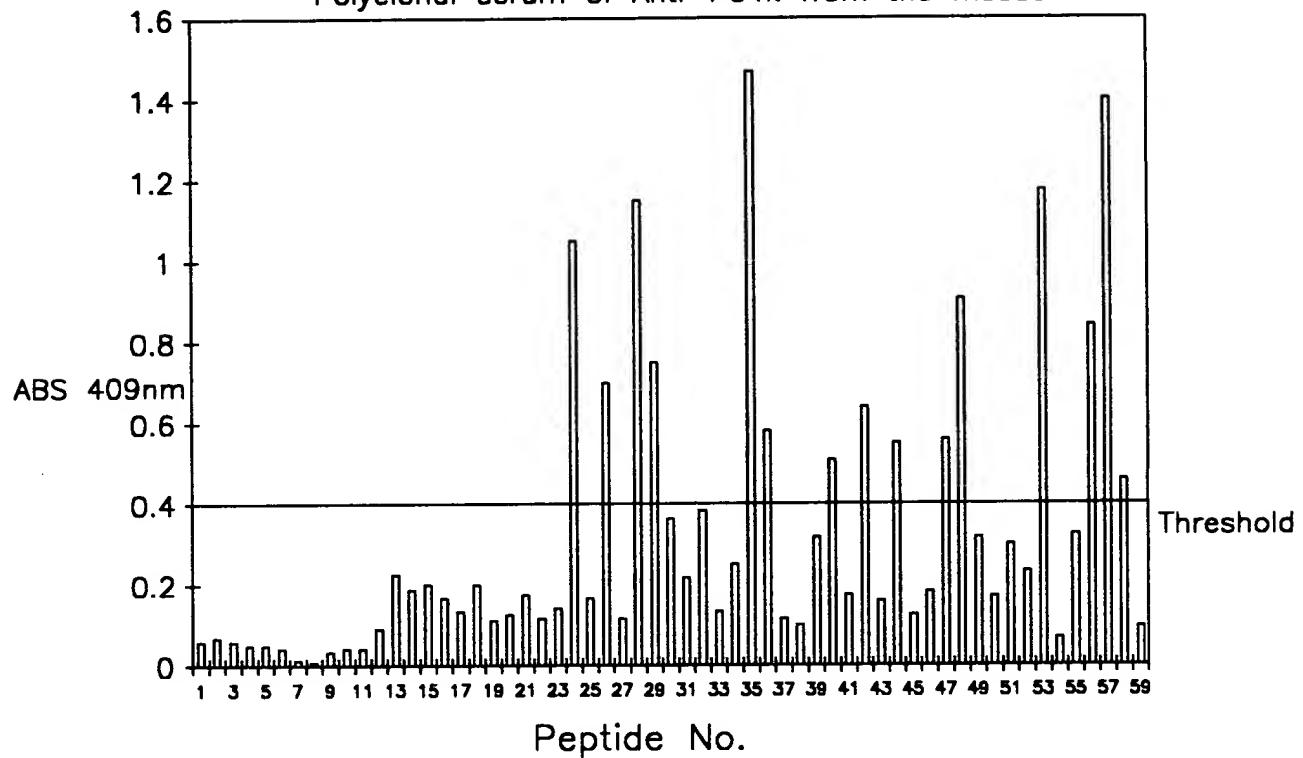
FIG. 1

10	20	30	40	50	60	70
ATGCTAGATA	AAAGAATGGC	TTTAGTTGAA	TTGAAAGTGC	CCGACATTGG	CGGACACGAA	AATGTAGATA
80	90	100	110	120	130	140
TTATCGCGGT	TGAAGTAAAC	GTGGGCGACA	CTATTGCTGT	GGACGATACC	CTGATTACTT	TGGAAACCGA
150	160	170	180	190	200	210
TAAAGCGACT	ATGGACGTAC	CTGCTGAAGT	TGCAGCGTA	GTCAAAGAAG	TTAAAGTTAA	AGTCGGCGAC
220	230	240	250	260	270	280
AAAATCTCTG	AAGGTGGTTT	GATTGTCGT	GTTGAAGCTG	AAGGCACGGC	AGCCGCTCCT	AAAGCCGAAG
290	300	310	320	330	340	350
CGGCTGCCGC	CCCCGCGCAA	GAAGCCCCTA	AAGCTGCCGC	TCCTGCTCCG	CAAGCCGC	AATTCCGGG
360	370	380	390	400	410	420
TTCTGCCGAT	GCCGAGTACG	ACGTGGTCGT	ATTGGGTGGC	GGTCCCGGCG	GTTACTCCGC	TGCATTIGCC
430	440	450	460	470	480	490
GCTGCCGATG	AAGGCTTGA	AGTCGCCATC	GTCGAACGT	ACAAAACCTT	GGGCGGCGTT	TGCCTGAACG
500	510	520	530	540	550	560
TCGGCTGTAT	CCCTTCCAAA	GCCTTGTTCG	ACAATGCCGC	CGTTATCGAC	GAAGTGGCGCC	ACTTGGCTGC
570	580	590	600	610	620	630
CAACGGTATC	AAATACCCCG	AGCCGGAAC	CGACATCGAT	ATGCTTCGCG	CCTACAAAGA	CGGCGTAGTT
640	650	660	670	680	690	700
TCCCAGCTCA	CGGGCGGTTT	GGCAGGTATG	GCGAAAAGCC	GTAAAGTGG	CGTTATCCAA	GGCGACGGGC
710	720	730	740	750	760	770
AATTCTTAGA	TCCGCACCAC	TTGGAAGTGT	CGCTGACTGC	CGGCGACGCG	TACGAACAGG	CAGCCCCTAC
780	790	800	810	820	830	840
CGGCGAGAAA	AAAATCGTTG	CCTTCAAAAA	CTGTATCATT	GCAGCAGGCA	GCGCGTAAC	CAAACCTGCCT
850	860	870	880	890	900	910
TTCATTCTG	AAGATCCGCA	CATCATCGAT	TCCAGGGCG	CATTGGCTCT	GAAAGAAGTA	CCGGGCAAAC
920	930	940	950	960	970	980
TGCTGATTAT	CGGGCGCGC	ATTATCAGCC	TCGAGATGGG	TACGGTTTAC	AGCACGCTGG	GTTCGCGTTT
990	1000	1010	1020	1030	1040	1050
GGATGTGGTT	GAAATGATGG	ACGGCCTGAT	GCAAGGC	GACCGCGATT	TGGTAAAAGT	ATGGCAAAA
1060	1070	1080	1090	1100	1110	1120
CAAAACGAAT	ACCGTTTGA	CAACATTATG	GTCAACACCA	AAACCGTTGC	AGTTGAGCCG	AAAGAAGACG
1130	1140	1150	1160	1170	1180	1190
GCGTTACGT	TACCTTGAA	GGCGCGAACG	CGCCTAAAGA	GCCGCAACGC	TACGATGCCG	TATTGGTTGC
1200	1210	1220	1230	1240	1250	1260
CGCCGGCCGC	GCGCCCAACG	GCAAACCAT	CAGCGCGAA	AAAGCAGGCG	TTGCCGTAAAC	CGATCGCGC
1270	1280	1290	1300	1310	1320	1330
TTCATCGAAG	TGGACAAACA	AATCGTACCA	AATGTGCCGC	ACATCTACGC	CATCGCGAC	ATCGTCGGTC
1340	1350	1360	1370	1380	1390	1400
AGCCGATGTT	GGGGCACAAA	GCCGTTACG	AAGGCCACGT	TGCCGCCGAA	AACTGCGCCG	GCCACAAAGC
1410	1420	1430	1440	1450	1460	1470
CTACTTCGAC	GCACCGTGA	TTCCGGCGT	TGCCTACACT	TCCCCGAAG	TGGCGTGGGT	GGCGAAACC
1480	1490	1500	1510	1520	1530	1540
GAACGTCCG	CCAAAGCCTC	CGGCCGCAA	ATCACCAAAG	CCAACTTCCC	GTGGCGGCT	TCCGCCGTG
1550	1560	1570	1580	1590	1600	1610
CGATTGCCAA	CGGTTGCGAC	AACGGCTTA	CCAAGCTGAT	TTTGATGCC	GAAACCGGCC	GCATCATCGG
1620	1630	1640	1650	1660	1670	1680
CGGGCGCATT	GTCGGTCCGA	ACGGTGGCGA	TATGATCGGC	GAAGTCTGCC	TTGCCATCGA	AATGGGCTGC
1690	1700	1710	1720	1730	1740	1750
GACGCGGCAG	ACATCGGCAA	AACCATCCAC	CCGCACCCGA	CCTTGGCGA	ATCCATCGGT	ATGGCGCGG
1760	1770	1780	1790	1797		
AAGTGGCATT GGGTACTTGT ACCGACCTGC CTCCGAAAAA GAAAAAA						

APPROVED	O.G. FIG.	
BY	CLASS :	SUBCLASS
DRAWN BY		

FIG. 2

Mapping of the protein P64k.
Polyclonal serum of Anti-P64k from the mouse



APPROVED	O.G. FIG.
BY	
DRAFTSMAN	
CLASS	SUBCLASS

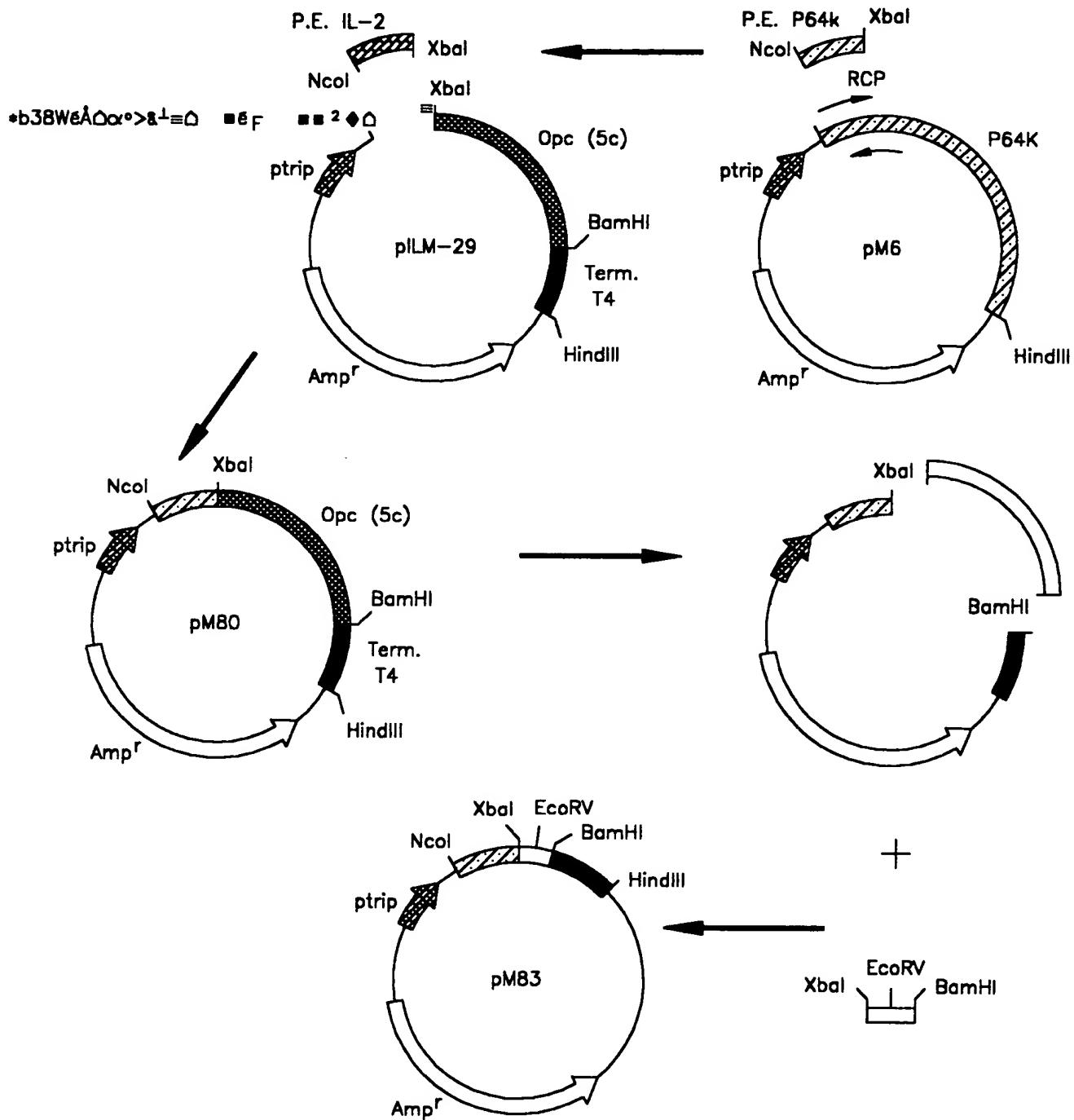
FIG. 3

4
5' TTCC

M	V	D	K	R	16	M	A	L	25	V	E	L	34	K	V	P	43	D	I	52	G	G	H
ATG	GTA	GAT	AAA	AGA	ATG	GCT	TTA	GTT	GAA	TTG	AAA	GTG	CCC	GAC	ATT	GGC	GGA	CAC					
E	N	V	D	I	61	I	A	V	70	E	V	N	88	V	G	97	D	T	106	I	A	V	115
GAA	AAT	GTA	GAT	ATT	ATC	GCG	GTT	GAA	GTA	AAC	GTG	GGC	GAC	GAC	ACT	ATT	GCT	GTG	GAC				
D	T	L	I	T	124	L	D	L	133	E			142										
GAT	ACC	CTG	ATT	ACT	TTG	GAT	CTA	GAA	A	3'													

APPROVED BY CRAFTSMAN	O.G. FIG.
CLASS	SUBCLASS

FIG. 4



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 5

Sequences producing High-scoring Segment Pairs:		Smallest Poisson Probability	High Score	P(N)	N
KPY1_HUMAN	PYRUVATE KINASE, M1 (MUSCLE) ISOZYME (EC 2.7.1...		51	0.98	1
KPY1_RAT	PYRUVATE KINAZE, M1 (MUSCLE) ISOZYME (EC 2.7.1...		51	0.98	1
KPY2_HUMAN	PYRUVATE KINAZE, M2 ISOZYME (EC 2.7.1.40).		51	0.98	1
KPY2_RAT	PYRUVATE KINAZE, M2 ISOZYME (EC 2.7.1.40).		51	0.98	1
<p>>KPY1_HUMAN PYRUVATE KINASE, M1 (MUSCLE) ISOZYME (EC 2.7.1.40) (CYTOSOLIC THYROID HORMONE-BINDING PROTEIN) Length = 530</p>					
Query:	29 VN VNGDTIAVDDTLITLDL 46 V+VG I VDD LI+L++				
Sbjct:	167 VEVGSKIYVDDGLISLQV 184				
<p>>KPY1_RAT PYRUVATE KINASE, M1 (MUSCLE) ISOZYME (EC 2.7.1.40). Length = 530</p>					
Query:	29 VN VNGDTIAVDDTLITLDL 46 V+VG I VDD LI+L++				
Sbjct:	167 VEVGSKIYVDDGLISLQV 184				
<p>>KPY2_HUMAN PYRUVATE KINASE, M2 ISOZYME (EC 2.7.1.40). Length = 530</p>					
Query:	29 VN VNGDTIAVDDTLITLDL 46 V+VG I VDD LI+L++				
Sbjct:	167 VEVGSKIYVDDGLISLQV 184				
<p>>KPY2_RAT PYRUVATE KINASE, M2 ISOZYME (EC 2.7.1.40). Length = 530</p>					
Query:	29 VN VNGDTIAVDDTLITLDL 46 V+VG I VDD LI+L++				
Sbjct:	167 VEVGSKIYVDDGLISLQV 184				

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DR. STERMAN		

FIG. 6

Sequences producing High-scoring Segment Pairs:		Reading Frame	High Score	P(N)	Smallest Poisson Probability N
CFMUCIN	Canis familiaris (clone pCTM-A) mucin c-term...	-2	62	0.30	1
HS8671	EST02755 Homo sapiens cDNA clone HFBCA72 sim...	-2	61	0.40	1
>CFMUCIN Canis familiaris (clone pCTM-A) mucin c-terminus RNA, 3' end. Length = 1733					
Query:	8 LVELKVPDIGHENVDIIAVEVNVGDTIAVDD 39 L E+ VPD H V+ +A E+ +G+ + VDD				
Sbjct:	1015 LREVQVPDRKLHKGVQLLAGELGIGEALQVDD 920				
>HS8671 EST02755 Homo sapiens cDNA clone HFBCA72 similar to Mucin CTM-A. Length = 286					
Query:	8 LVELKVPDIGHENVDIIAVEVNVGDTIAVDD 39 L E+ VPD HE V+ + + E+ VG VDD				
Sbjct:	240 LREVQVPDRKLHEGVQLLSEGELGVGKXFQVDD 145				

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

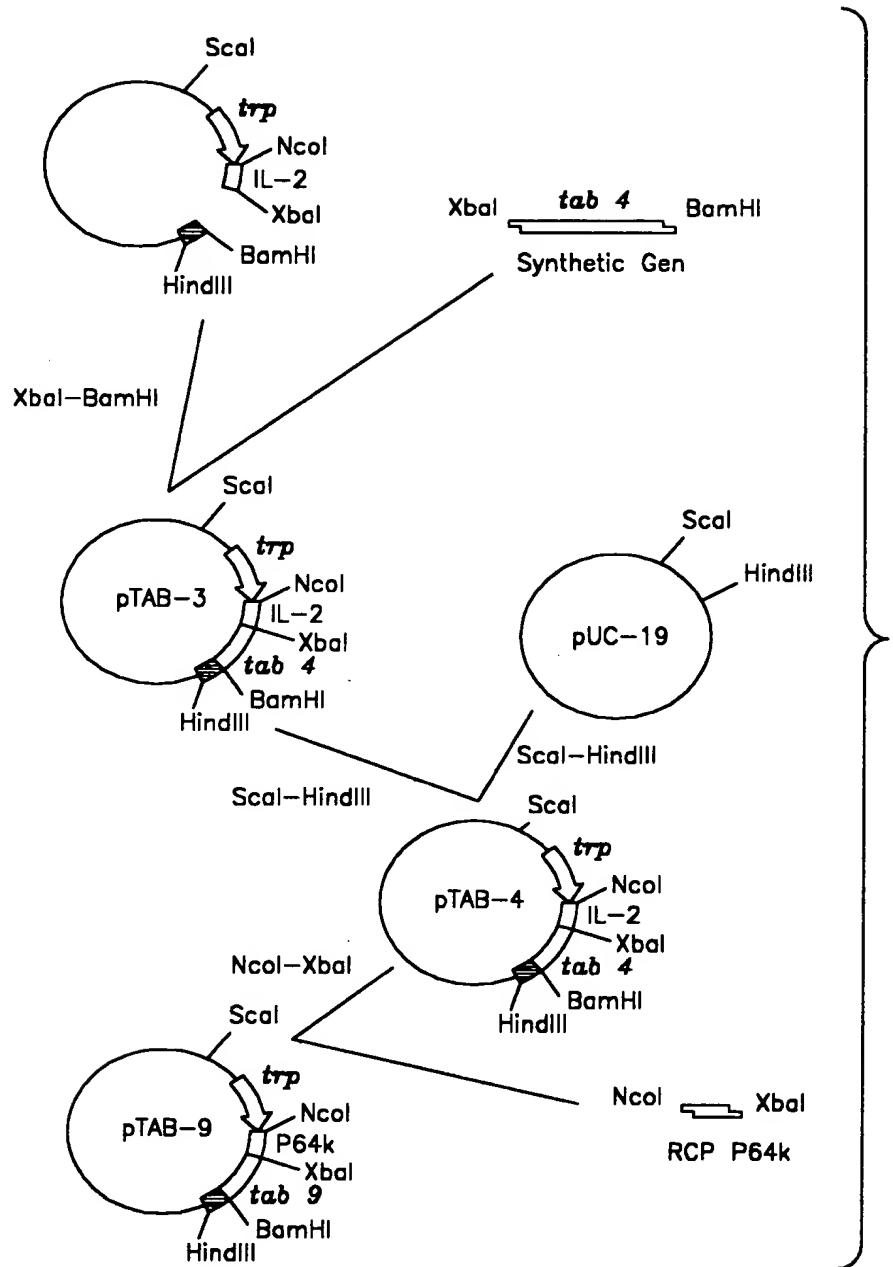


FIG. 7

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
CRAFTSMAN		

FIG. 8

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DR. FTSMAN		

FIG. 9A

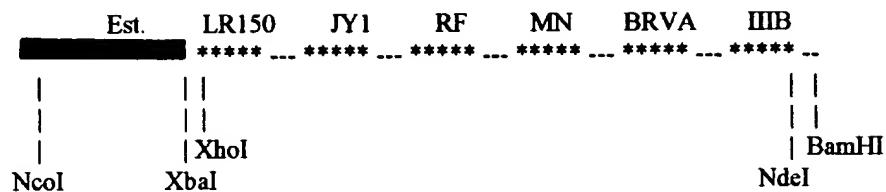


FIG. 9B

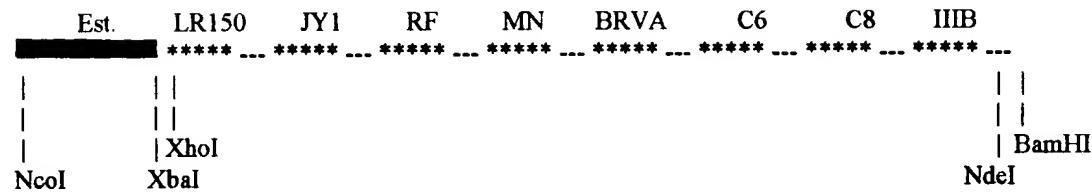


FIG. 10A

Gene	Stabilizer	Plasmid	Culture medium	% of expression
<i>porA</i>	hIL2-58	pILM-28	M9	32
	P64k-47	pM-82	M9	34
<i>opc</i>	hIL2-58	pILM-29	M9	25
	P64k-47	pM-80	M9	20
TAB	hIL2-22	pTAB4	LB	5
	P64k-47	pTAB4	LB	10

FIG. 10B

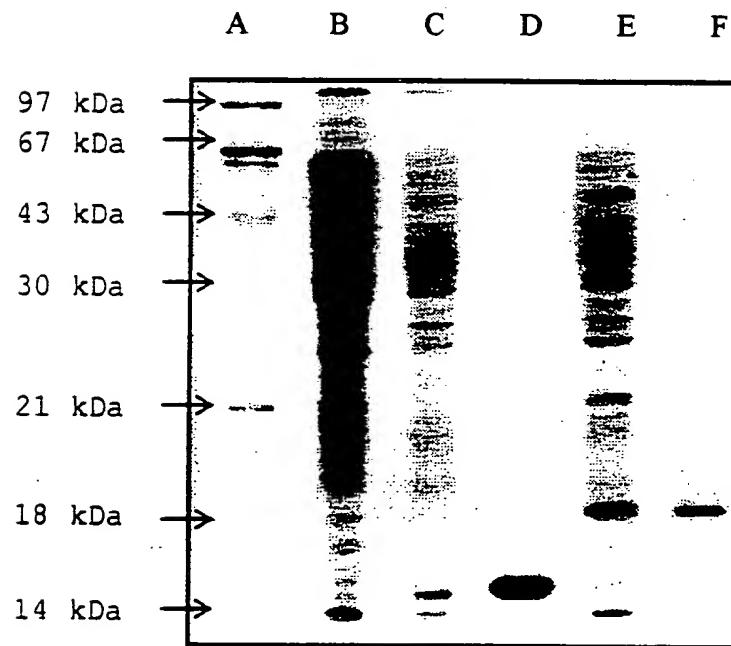
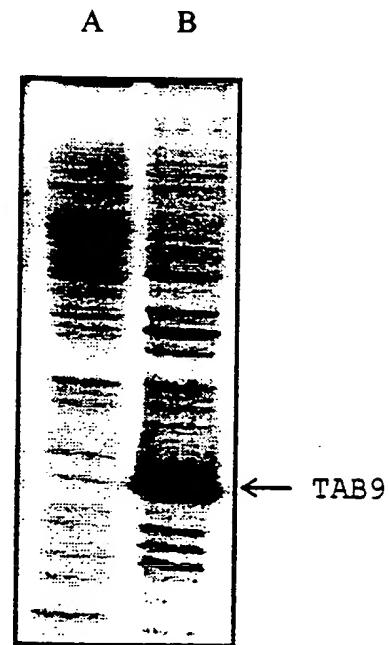
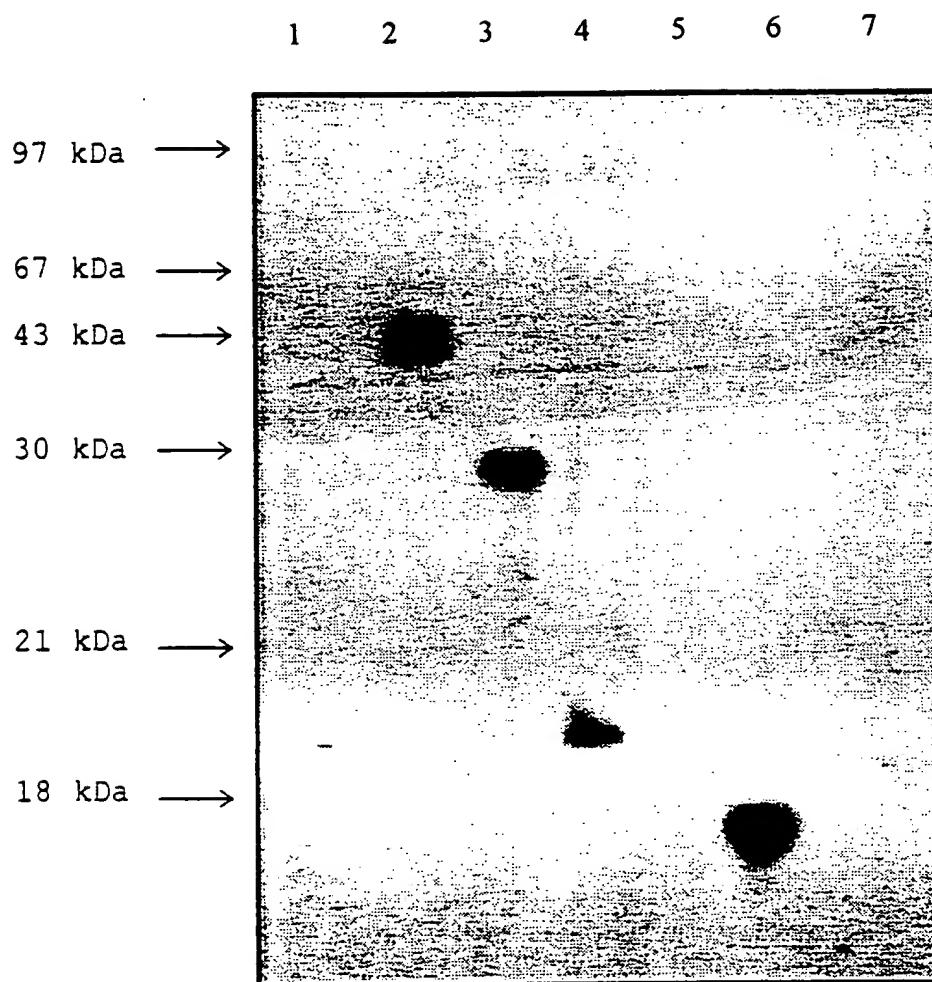


FIG. 10C



APPROVED	O.G. F.G.
BY	CLASS
DRAFTSMAN	SUBCLASS

FIG. 11



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 12

	TAB 4				TAB 9			
	1	2	3	10				
RABBIT#	12166	5725	5340	2310	1	20480	51200	51200
TAB	20480	10240	10240	81920	20480	20480		
	0	0	0	0	0	0		
LR150	<100	<100	<100	6400	400	<100	800	<100
JY1	200	<100	<100	12800	1600	6400	3200	<100
RF	6400	<100	3200	800	<100	200	3200	800
MN	200	<100	<100	1600	1600	3200	6400	<100
BRVA	<100	6400	400	3200	800	400	6400	1600
IIIB	<100	<100	<100	<100	800	<100	800	<100
GM		1820				1416		
R%		45.8%				75%		

0500 0500 0500 0500 0500